

Marketing Bulletin

Seagate® Momentus® FDE Self-Encrypting Drive

Integrator Information and Self-Qualification Kit

This bulletin is provided for informational purposes only. Seagate provides no warranty either expressed or implied regarding the accuracy or validity of this document and associated information.



Figure 1. Location of part number on drive label

Information for System Integrators

This bulletin provides information necessary to ensure your system can support Seagate® Momentus® FDE Self-Encrypting Drives. While most systems have the needed functionality, certain chipset/BIOS combinations may block certain commands that are needed to control the encrypting drives.

The process for self-qualification is as follows:

1. Procure a Momentus FDE Self-Encrypting Drive.
2. Determine your needs as a client and choose the appropriate level of Self-Encrypting Drive management for your application.
3. If you do not require enterprise management of passwords and end-point encryption, consider using the ATA Security API by setting the drive's password in BIOS.
4. If you do require enterprise management of passwords and end-point encryption, consider using the DriveTrust™ API and select a solution from an independent software vendor (ISV).
 - a. Check the Self-Encrypting Drive compatibility information listed in this document regarding your system and your chosen solution.
 - b. If the information regarding compatibility is not listed in this document:
 - i. Use our Compatibility tool to determine if your system provides the basic capabilities required for Self-Encrypting Drive management.
 - ii. Check with your chosen ISV to determine if your system is compatible with their solution.

Procure a Seagate Momentus FDE Self-Encrypting Drive

The first step is to ensure that you have a Seagate Momentus FDE Self-Encrypting Drive, as identified in Table 1. It is important that the part number on the drive label (Figure 1) matches one of the part numbers listed.

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Table 1. Momentus FDE Self-Encrypting Drive Models

Description	Model Number	Part Number	Capacity
Momentus® 5400 FDE.2	ST980816AS	9CU132-527	80 GB
	ST9120827AS	9CU133-527	120 GB
	ST9160824AS	9CU134-527	160 GB
Momentus 5400 FDE.3	ST9250322AS	9GG133-500	250 GB
	ST9320322AS	9GG134-500	320 GB
Momentus 7200 FDE	ST9160414AS	9GU142-500	160 GB
	ST9250424AS	9GU143-500	250 GB
	ST9320424AS	9GU144-500	320 GB
Momentus 7200 FDE + ZGS ¹	ST9160414ASG	9GUG42-500	160 GB
	ST9320424ASG	9GUG44-500	320 GB
Momentus 5400 FDE.4	ST9120317AS	9PR131-500	120 GB
	ST9160317AS	9PR13C-500	160 GB
	ST9250317AS	9PR132-500	250 GB
	ST9320327AS	9PR133-500	320 GB
	ST9500327AS	9PR134-500	500 GB
Momentus 7200 FDE.2	ST9160413AS	9PT14C-500	160 GB
	ST9250411AS	9PT142-500	250 GB
	ST9500421AS	9PT144-500	500 GB
Momentus 7200 FDE.2 + ZGS ¹	ST9160418ASG	9RXG4C-500	160 GB
	ST9250464ASG	9RXG42-500	250 GB
	ST9500426ASG	9RXG44-500	500 GB
Momentus 7200.2+FIPS 140-2 ²	ST9250412AS	9PU142-500	250GB
	ST9500422AS	9PU144-500	500GB
Momentus Thin	ST250LT012	9YK14C-500	250GB
	ST320LT012	9YK142-500	320GB
Momentus Thin + FIPS-140-2 ²	ST250LT009	9WC14C-500	250GB
	ST320LT009	9WC142-500	320GB

¹ Zero G Sensor

² See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm>.

Seagate continues to expand the Momentus FDE Self-Encrypting Drive family. For the most current list of drive models and part numbers, go to www.seagate.com/www/en-us/products/laptops/momentus/.

Note: Additional part numbers may ship in OEM systems. Contact the OEM to ensure the system contains the correct drives.

Drive State Upon Shipment

Upon shipment, the Momentus FDE drive is fully encrypting. However, authentication is not yet

established and therefore not required to access the drive. The drive may be installed in a system and/or imaged the same as any non-encrypting hard drive. Following installation, the drive may be configured to operate in either the DriveTrust Security API or the ATA Security API mode as shown below, depending on your needs.

Determine Your Needs

As mentioned above, there are currently two options for managing your Self-Encrypting Drive. For clients who only require the ability to set

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a password on their drive and have a minimal number of users (and passwords) to manage, the ATA Security API may be an ideal solution. The utility provided by this API is minimal and there are no administrative tools for managing users. However, this mode of operation requires no purchase or installation of third-party software and setup is relatively straightforward.

For clients that require more features (such as single sign-on, password management and recovery, or seamless external drive management) or are deploying Self-Encrypting Drives in an environment with many users (more than 20 users), the DriveTrust API enables ISVs to create tools that provide you with these capabilities.

Compatibility Information

DriveTrust Security API Using Third-Party Software Management

This API provides robust security management targeted for more feature-rich software management of Momentus FDE drives. This requires Seagate-certified software from a third-party software vendor.

Pass-Through Considerations

The Drive Trust Security API utilizes the ATA Trusted Send and Trusted Receive commands as defined in the ATA-8 specification. Since these are newer and optional commands in the ATA command set, many chipsets, drivers and operating systems do not natively support these commands. As a result, these commands are delivered to the drive via the existing *pass-through* mechanisms.

Seagate has done extensive development and testing and has identified the following configurations that are available on all modern systems to support pass-through:

ATA Drivers

- Use the most current versions of atapi.sys, msahci.sys, or iastor.sys.
- Intel Turbo Memory must be disabled.
- RAID must be disabled.

Operating Systems

- Windows XP SP1 or newer
- Windows Server 2003
- Windows Vista RTM + Hotfix KB950096
- Windows Vista SP1 + Hotfix KB943170
- Windows Vista SP2 + Hotfix KB977323
- Windows Server 2008 + Hotfix KB976323
- Windows 7 + Hotfix KB976418

Seagate has tested a large population of systems with these components and found 100 percent of the systems to be compatible with pass-through. Refer to Appendix B for the complete list of systems tested.

If your system is not listed in Appendix B, Seagate provides a tool to verify your system's pass-through capability. This tool and instructions for its use are available at www.seagate.com/support/sedqual/.

Note: This test may be performed before the installation of your FDE drive to avoid any return/warranty concerns with removing FDE drives from the shipment packaging.

Third-Party Security Management Software

The following companies have been certified by Seagate for support of Momentus FDE Self-Encrypting Drives via the DriveTrust Security API. They have developed security management software for single-user and enterprise-level management of the Momentus FDE Self-Encrypting Drives. Contact them directly for software qualification assistance and to obtain a trial version of their software.

- CREDANT – DriveManager
www.credant.com/products/credant-drivemanager.html
- Mobile Armor – DriveArmor
www.mobilearmor.com/drivearmor.php
- SECUDE International AG – FinallySecure
www.secude.com/html/index.php?id=1354
- Wave Systems Corp. – Embassy Remote Administration Server
www.wavesys.com/products/eras.asp
- WinMagic Data Security, Inc. – SecureDoc
www.winmagic.com/seagate

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Note: For the most up-to-date list of software providers who support the Momentus FDE Self-Encrypting Drives, go to www.seagate.com/support/sedqual/.

Seagate maintains a security software compatibility lab to test the Momentus FDE Self-Encrypting Drives with each certified software vendor. This testing has demonstrated broad compatibility across a large number of systems while using the identified third-party management software packages. Refer to Appendix A for a complete list of systems and software tested.

ATA Security API Using BIOS Management

This API allows the client to set the drive's password in BIOS instead of relying upon third-party software. This is a simple solution for situations that do not require robust policies or password management.

System Considerations

To use the ATA Security API, the system integrator will need to determine if the BIOS supports the setting of hard drive passwords. A typical way to verify this is to access the BIOS setup screen by pressing a particular Function key (Fn) during power-on, then navigate to the security or storage pages and find the drive password-setting function.

Integration Procedure

Upon verification of system BIOS capability, the system integrator just needs to set the hard drive password in the BIOS to complete the validation, as follows:

1. Upon system power-on, access the BIOS-setting menu (typically a function key).
2. Access the ATA Security Hard Drive password-setting menu (typical label is HDD password).
3. Set the hard drive password according to the menus.
4. Follow the instructions for saving and re-booting. (Your drive is now under password control)
5. On the subsequent power-up, the BIOS will detect the locked drive and request the password prior to booting the system.

6. Enter the password. The hard drive is now unlocked, and the system will boot.
7. On subsequent power-up events, repeat from step 5.

Seagate attempts to verify Momentus FDE drive compatibility in as many systems as possible. To date, 100 percent of systems with BIOS hard drive password capability that have been tested have passed in ATA Security Mode.

For additional questions regarding system capability for BIOS setting of hard drive passwords, see your BIOS or system provider.

Further Assistance

For further assistance and more information on Seagate Momentus FDE Self-Encrypting Drives, refer to the following:

- **Seagate FDE Self-Encrypting Drives:**
www.seagate.com/security
For system integration assistance follow the Security Partners and Integrators link.
- **Seagate FDE Self-Encrypting Drive Compatibility Test:**
www.seagate.com/security
Follow the SED Qualification Test link.
- **Ask the Expert:** www.seagate.com/security
Follow the Ask the Expert link.
- **Seagate Customer Service:**
Phone: 1-800-SEAGATE (1-800-732-4283)
Web: www.seagate.com/www/en-us/about/contact_us

For further assistance with third-party software integration, see your software providers.

Appendix A. DriveTrust™ Security API Systems Tested

The following systems have been tested in the DriveTrust Security API mode. Note that the absence of a particular system only means that it has not been tested and implies neither incompatibility nor compatibility. The broad compatibility shown below suggests there will be good compatibility on a large majority of systems across the notebook market. For all systems, system integrators may look for the system in Appendix B for general compatibility.

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If the system is not listed in Appendix B, they may use the Compatibility Test provided by Seagate to ensure correct operation. Once the system integrator has either found their system listed as passing in Appendix B, or successfully run our Compatibility Test on the target system, they should contact their intended ISV for further information.

Note: Pass indicates a tested and passing case. Blank squares represent a test case that cannot occur for the target system or a test case Seagate has not included in the demonstration of broad compatibility. We are constantly testing systems for compatibility. For the most recent information go to www.seagate.com/support/sedqual/.

Summary Status of Credant v3.0.0.230

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP2		Win 7 RTM	
				AHCI	ATA	AHCI	ATA	AHCI	ATA
Intel	ICH-8M	ASUS U6Sg	Yes / Yes			Pass	Pass		
		Dell Latitude D530	Yes / Yes	Pass	Pass	Pass	Pass	Pass	Pass
		Dell Latitude D630	Yes / Yes	Pass	Pass	Pass	Pass		
		Dell Latitude D830	Yes / Yes	Pass	Pass	Pass	Pass	Pass	Pass
		Dell Precision M4300	Yes / Yes			Pass	Pass		
		Dell Vostro 1400	Yes / Yes	Pass	Pass	Pass	Pass		
		Dell XPS M1330	Yes / Yes	Pass	Pass	Pass	Pass	Pass	Pass
		Fujitsu Lifebook E8410	Yes / Yes	Pass	Pass	Pass	Pass		
		Lenovo Thinkpad T61	Yes / Yes	Pass	Pass	Pass	Pass		
		LG R405s	Yes / Yes				Pass		
		NEC VERSA S5500	Yes / Yes			Pass	Pass		
		Packard Bell EasyNote 12-in.	Yes / No			Pass			
		Toshiba Satellite M200	Yes / No			Pass			
Intel	ICH-9M	Acer Aspire 4930G	Yes / Yes			Pass			
		Acer Travelmate 6293	Yes / Yes			Pass			
		Dell Latitude E4300	Yes / Yes			Pass	Pass		
		Dell Latitude E5400	Yes / Yes	Pass		Pass		Pass	
		Dell Latitude E5500	Yes / Yes	Pass		Pass	Pass	Pass	
		Dell Latitude E6400	Yes / Yes	Pass		Pass		Pass	
		Dell Latitude E6500	Yes / Yes			Pass	Pass		
		Dell Precision M2400	Yes / Yes			Pass			
		Dell Precision M4400	Yes / Yes	Pass				Pass	
		Dell Precision M6400	Yes / Yes			Pass			
		Dell Vostro 1088	Yes / Yes			Pass		Pass	
		Dell Vostro 1520	Yes / Yes			Pass			
		HP 2530b	Yes / Yes	Pass		Pass	Pass		
		HP 6530b	Yes / Yes	Pass		Pass	Pass		
		HP 6930p	Yes / Yes			Pass	Pass		
		HP 8530p	Yes / Yes	Pass	Pass	Pass	Pass		
		HP ProBook 4411s	Yes / Yes	Pass		Pass			
		Lenovo ThinkPad T400	Yes / Yes			Pass	Pass		
		Lenovo ThinkPad X200s	Yes / Yes			Pass	Pass		
		Lenovo ThinkPad W700	Yes / Yes			Pass	Pass		
		Panasonic CF-F8	Yes / No			Pass			
		Panasonic CF-30	Yes / No	Pass		Pass			
		Panasonic CF-19	Yes / No	Pass		Pass			

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Summary Status of Credant v3.0.0.230 (continued)

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP2		Win 7 RTM	
				AHCI	ATA	AHCI	ATA	AHCI	ATA
Intel	ICH-9M	Panasonic CF-W8	Yes / No	Pass		Pass			
		Samsung R420	Yes / Yes			Pass			
		Toshiba Protégé A600	Yes / Yes			Pass	Pass	Pass	Pass
Intel	ICH-10D0	Dell OptiPlex 760	Yes / Yes			Pass	Pass		
		Dell OptiPlex 960	Yes / Yes			Pass	Pass	Pass	Pass
AMD(ATI)	SB700	HP 6535b	Yes / Yes			Pass			

Summary Status of Mobile Armor v3.0.0.80

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP2		Win 7 RTM	
				AHCI	ATA	AHCI	ATA	AHCI	ATA
Intel	ICH-8M	ASUS U6Sg	Yes / Yes			Pass	Pass		
		Dell Latitude D530	Yes / Yes	Pass	Pass	Pass	Pass	Pass	Pass
		Dell Latitude D630	Yes / Yes	Pass	Pass	Pass	Pass		
		Dell Latitude D830	Yes / Yes	Pass	Pass	Pass	Pass	Pass	Pass
		Dell Precision M4300	Yes / Yes			Pass	Pass		
		Dell Vostro 1400	Yes / Yes	Pass	Pass	Pass	Pass		
		Dell XPS M1330	Yes / Yes	Pass	Pass	Pass	Pass	Pass	Pass
		Fujitsu Lifebook E8410	Yes / Yes	Pass	Pass	Pass	Pass		
		Lenovo Thinkpad T61	Yes / Yes	Pass	Pass	Pass	Pass		
		LG R405s	Yes / Yes				Pass		
		NEC VERSA S5500	Yes / Yes			Pass	Pass		
		Packard Bell EasyNote 12-in.	Yes / No			Pass			
		Toshiba Satellite M200	Yes / No			Pass			
Intel	ICH-9M	Acer Aspire 4930G	Yes / Yes			Pass			
		Acer Travelmate 6293	Yes / Yes			Pass			
		Dell Latitude E4300	Yes / Yes			Pass	Pass		
		Dell Latitude E5400	Yes / Yes	Pass		Pass		Pass	
		Dell Latitude E5500	Yes / Yes	Pass		Pass	Pass	Pass	
		Dell Latitude E6400	Yes / Yes	Pass		Pass		Pass	
		Dell Latitude E6500	Yes / Yes			Pass	Pass		
		Dell Precision M2400	Yes / Yes			Pass			
		Dell Precision M4400	Yes / Yes	Pass				Pass	
		Dell Precision M6400	Yes / Yes			Pass			
		Dell Vostro 1088	Yes / Yes			Pass		Pass	
		Dell Vostro 1520	Yes / Yes			Pass			
		HP 2530b	Yes / Yes	Pass		Pass	Pass		
		HP 6530b	Yes / Yes	Pass		Pass	Pass		
		HP 6930p	Yes / Yes			Pass	Pass		
		HP 8530p	Yes / Yes	Pass	Pass	Pass	Pass		
		HP ProBook 4411s	Yes / Yes	Pass		Pass			
		Lenovo ThinkPad T400	Yes / Yes			Pass	Pass		
		Lenovo ThinkPad X200s	Yes / Yes			Pass	Pass		
		Lenovo ThinkPad W700	Yes / Yes			Pass	Pass		

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Summary Status of Mobile Armor v3.0.0.80 (continued)

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP2		Win 7 RTM	
				AHCI	ATA	AHCI	ATA	AHCI	ATA
Intel	ICH-9M	Panasonic CF-F8	Yes / No			Pass			
		Panasonic CF-30	Yes / No	Pass		Pass			
		Panasonic CF-19	Yes / No	Pass		Pass			
		Panasonic CF-W8	Yes / No	Pass		Pass			
		Samsung R420	Yes / Yes			Pass			
		Toshiba Protégé A600	Yes / Yes			Pass	Pass	Pass	Pass
Intel	ICH-10D0	Dell OptiPlex 760	Yes / Yes			Pass	Pass		
		Dell OptiPlex 960	Yes / Yes			Pass	Pass	Pass	Pass
AMD(ATI)	SB700	HP 6535b	Yes / Yes			Pass			

Summary Status of Wave Systems v1.14.03.000

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP1	
				AHCI	ATA	AHCI	ATA
Intel	ICH-7M	Acer Aspire 5680	No / Yes		Pass		Pass
		Asus A8Jr	No / Yes		Pass		Pass
		Dell Latitude D520	No / Yes		Pass		
		Dell Latitude D620	No / Yes		Pass		
		Dell Latitude D820	No / Yes		Pass		
		HP NC8430	Yes / Yes	Pass	Pass		
		HP NX6320	Yes / Yes	Pass	Pass		
		Lenovo Thinkpad T60	Yes / Yes	Pass	Pass	Pass	Pass
		Lenovo Thinkpad X60	Yes / Yes	Pass	Pass	Pass	Pass
		Panasonic CF-19	Yes / No	Pass			
Intel	ICH-8M	Asus F9S	Yes / Yes	Pass	Pass	Pass	Pass
		Asus G2S	Yes / Yes	Pass	Pass	Pass	Pass
		Asus U65g	Yes / Yes			Pass	Pass
		BenQ Joybook S32W	Yes / No			Pass	
		BenQ Joybook S41	Yes / No			Pass	
		Dell Latitude D530	Yes / Yes	Pass	Pass	Pass	Pass
		Dell Latitude D630	Yes / Yes	Pass	Pass		
		Dell Latitude D830	Yes / Yes	Pass	Pass		
		Dell Vostro 1400	Yes / Yes			Pass	Pass
		Dell Vostro 1500	Yes / Yes	Pass	Pass	Pass	Pass
		Dell XPS M1330	Yes / Yes	Pass	Pass	Pass	Pass
		Fujitsu Lifebook A6030	Yes / Yes	Pass	Pass	Pass	Pass
		Fujitsu Lifebook E8410	Yes / Yes	Pass	Pass	Pass	Pass
		HP Compaq 6910p	Yes / Yes	Pass	Pass	Pass	Pass
		HP Compaq 8510p	Yes / Yes	Pass	Pass	Pass	Pass
		Lenovo Thinkpad T61	Yes / Yes			Pass	Pass
		Lenovo Thinkpad T61	Yes / Yes	Pass	Pass		
		LG R405s	Yes / Yes			Pass	Pass
		NEC VERSA E6310	Yes / Yes			Pass	Pass
		NEC VERSA S5500	Yes / Yes			Pass	Pass
		Packard Bell EasyNote 12-in.	Yes / No			Pass	
		Panasonic CF-Y7	Yes / No	Pass		Pass	
		Panasonic Toughbook 74	Yes / No	Pass			

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Summary Status of Wave Systems v1.14.03.000 (continued)

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP1	
				AHCI	ATA	AHCI	ATA
Intel	ICH-8M	Toshiba Satellite M200	Yes / No			Pass	
		Toshiba Tecra M9	Yes / No	Pass		Pass	
		Toshiba Satellite U300	Yes / No	Pass		Pass	
		Toshiba Tecra MB	Yes / No	Pass		Pass	
Intel	ICH-9M	Dell Latitude E5500	Yes / Yes	Pass		Pass	
		Dell Latitude E6500	Yes / Yes	Pass		Pass	
		Dell Latitude ES400	Yes / Yes	Pass		Pass	
		Dell Latitude E6400	Yes / Yes	Pass		Pass	
		HP 6530b	Yes / Yes			Pass	
		Lenovo ThinkPad T400	Yes / Yes			Pass	
AMD(ATI)	SB600	Dell Latitude D531	No / Yes		Pass		
Nvidia	MCP67	Acer Aspire 4520	Yes / Yes				Pass
AMD(ATI)	SB700	HP 6535b				Pass	Pass
		HP Pavilion dv4z		Pass	Pass	Pass	Pass
VIA	VT8237R+	Founder R611	No / Yes		Pass		
		Haier A60	No / Yes		Pass		

Summary Status of WinMagic v4.5.20080515.12

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Model AHCI / ATA	Win XP SP3		Win Vista SP1	
				AHCI	ATA	AHCI	ATA
Intel	ICH-7M	Acer Aspire 5610Z	No / Yes		Pass		Pass
		Acer Aspire 5680	No / Yes		Pass		Pass
		Acer TravelMate 8210	No / Yes		Pass		
		Asus A8Fm	No / Yes		Pass		Pass
		Asus A8Jr	No / Yes		Pass		Pass
		Dell Latitude D520	No / Yes		Pass		
		Dell Latitude D620	No / Yes		Pass		
		Dell Latitude D820	No / Yes		Pass		
		HP NX6320	Yes / Yes	Pass	Pass		
		HP Pavilion DV6000T	Yes / Yes	Pass	Pass		
		Lenovo Thinkpad T60	Yes / Yes	Pass	Pass	Pass	Pass
		Lenovo Thinkpad X60	Yes / Yes	Pass	Pass	Pass	Pass
Intel	ICH-8M	Panasonic CF-19	Yes / No	Pass			
		BenQ Joybook S32W	Yes / No			Pass	
		BenQ Joybook S41	Yes / No			Pass	
		Dell Latitude D530	Yes / Yes	Pass	Pass	Pass	Pass
		Dell Latitude D630	Yes / Yes	Pass	Pass		
		Dell Latitude D830	Yes / Yes	Pass	Pass		
		Dell Vostro 1400	Yes / Yes			Pass	Pass
		Dell Vostro 1500	Yes / Yes	Pass	Pass	Pass	Pass
		Dell XPS M1330	Yes / Yes	Pass	Pass	Pass	Pass
		Fujitsu Lifebook A6030	Yes / Yes	Pass	Pass	Pass	Pass
		Fujitsu Lifebook E8410	Yes / Yes	Pass	Pass	Pass	Pass
		HP Compaq 6910p	Yes / Yes	Pass	Pass	Pass	Pass
		HP Compaq 8510p	Yes / Yes	Pass	Pass	Pass	Pass

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Summary Status of WinMagic v4.5.20080515.12 (continued)

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Model AHCI / ATA	Win XP SP3		Win Vista SP1	
				AHCI	ATA	AHCI	ATA
Intel	ICH-8M	Lenovo Thinkpad T61	Yes / Yes			Pass	Pass
		Lenovo Thinkpad T61	Yes / Yes	Pass	Pass		
		LG P300u	Yes / Yes			Pass	
		NEC VERSA S5500	Yes / Yes			Pass	Pass
		Packard Bell EasyNote 12-in.	Yes / No			Pass	
		Panasonic CF-Y7	Yes / No	Pass		Pass	
		Panasonic Toughbook 74	Yes / No	Pass			
		Toshiba Satellite M200	Yes / No			Pass	
		Toshiba Tecra M9	Yes / No	Pass		Pass	
		Toshiba Satellite U300	Yes / No	Pass		Pass	
		Toshiba Tecra M8	Yes / No	Pass		Pass	
AMD(ATI)	SB600	Dell Latitude D531	No / Yes		Pass		
		HP Compaq 6515p	No / Yes		Pass		Pass
Nvidia	MCP67	Acer Aspire 4520	Yes / Yes				Pass
VIA	VT8237R+ VT8237A	Founder R611	No / Yes		Pass		
		Haier A60	No / Yes		Pass		
		TongFang K431	No / Yes		Pass		
SIS	SIS968	BenQ Q41	No / Yes				Pass
		Haier A20	Yes / Yes		Pass		
		Packard Bell EasyNote 15-in.	No / Yes		Pass		

Summary Status of SECUDE v 9.2 / 9.2.2 / 9.3.1

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP1	
				AHCI	ATA	AHCI	ATA
Intel	ICH-7M	Acer Aspire 5680	No / Yes		Pass		Pass
		Asus A8Jr	No / Yes		Pass		Pass
		Dell Latitude D520	No / Yes		Pass		
		Dell Latitude D620	No / Yes		Pass		
		Dell Latitude D820	No / Yes		Pass		
		HP NC8430	Yes / Yes	Pass	Pass		
		HP NX6320	Yes / Yes	Pass	Pass		
		Lenovo Thinkpad T60	Yes / Yes	Pass	Pass	Pass	Pass
		Lenovo Thinkpad X60	Yes / Yes	Pass	Pass	Pass	Pass
Intel	ICH-8M	Panasonic CF-19	Yes / No	Pass			
		Asus U6Sg	Yes / Yes			Pass	Pass
		BenQ Joybook S32W	Yes / No				Pass
		BenQ Joybook S41	Yes / No			Pass	
		HP Compaq 6910p	Yes / Yes	Pass	Pass	Pass	Pass
		Lenovo Thinkpad T61	Yes / Yes			Pass	Pass
		Lenovo Thinkpad T61	Yes / Yes	Pass	Pass		
		LG P300u	Yes / Yes			Pass	
		LG R405s	Yes / Yes			Pass	Pass
		Packard Bell EasyNote 12-in.	Yes / No			Pass	
		Panasonic Toughbook 74	Yes / No	Pass			
		Toshiba Tecra M9	Yes / No	Pass		Pass	
		Toshiba Satellite U300	Yes / No	Pass		Pass	
		Toshiba Tecra M8	Yes / No	Pass		Pass	

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Summary Status of SECUDE v 9.2 / 9.2.2 / 9.3.1 (continued)

Chipset Manufacturer	Chipset Southbridge	System Model	BIOS Mode AHCI / ATA	Win XP SP3		Win Vista SP1	
				AHCI	ATA	AHCI	ATA
AMD	SB600	Dell Latitude D531	No / Yes		Pass		
VIA	VT8237R+	Founder R611	No / Yes		Pass		
		Haier A60	No / Yes		Pass		
SIS	SIS968	BenQ Q41	No / Yes				Pass
		Haier A20	Yes / Yes		Pass		
		Packard Bell EasyNote 15-in.	No / Yes		Pass		

Appendix B. Seagate-Tested Systems That Have Passed the Compatibility Test

The following systems have been verified to allow pass-through commands. Note that the absence of a particular system only means that it has not been tested and implies neither incompatibility nor compatibility. For all systems, the system integrator may use the Compatibility Test provided by Seagate to ensure correct operation.

Note: We are constantly testing systems for compatibility. For the most recent information go to www.seagate.com/support/sedqual/.

Chipset Manufacturer	Chipset Southbridge	System Model
Intel	ICH-7M	Acer Aspire 5680
		Asus A8Jr
		Dell Latitude D520
		Dell Latitude D620
		Dell Latitude D820
		HP NC8430
		HP NX6320
		Lenovo Thinkpad T60
		Lenovo Thinkpad X60
		Panasonic CF-19
Intel	ICH-8M	Acer TravelMate 6292
		Asus F9S
		Asus G2S
		Asus U6Sg
		BenQ Joybook S32W
		BenQ Joybook S41
		Dell Latitude D530
		Dell Latitude D630
		Dell Latitude D830
		Dell Precision M4300
		Dell Vostro 1400
		Dell Vostro 1500
		Dell XPS M1330
		Fujitsu Lifebook A6030
		Fujitsu Lifebook E8410
		HP Compaq 6910p

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Chipset Manufacturer	Chipset Southbridge	System Model
Intel	ICH-8M	HP Compaq 8510p
		Lenovo Thinkpad T61
		Lenovo Thinkpad T61
		LG P300u
		LG R405s
		NEC VERSA E6310
		NEC VERSA S5500
		Packard Bell EasyNote 12-in.
		Panasonic CF-Y7
		Panasonic Toughbook 74
		Toshiba Satellite M200
		Toshiba Tecra M9
		Toshiba Satellite U300
		Toshiba Tecra M8
Intel	ICH-9M	Acer Aspire 4930G
		Asus F8VA
		Asus F6V
		Asus U6V
		Asus G50V
		Asus M50V
		Dell Latitude E5500
		Dell Latitude E6500
		Dell Latitude E5400
		Dell Latitude E6400
		Fujitsu Lifebook s6520
		HP 2530b
		HP 6530b
		HP 6930p
		HP 8530p
		Lenovo ThinkPad T400
AMD(ATI)	SB600	Dell Latitude D531
		Dell Latitude D531
		HP Compaq 6515b
Nvidia	MCP67	Acer Aspire 4520
AMD(ATI)	SB700	HP 6535b
		HP Pavilion dv4z
VIA	VT8237R+	Founder R611
		Haier A60
	VT8237A	TongFang K431
SIS	SIS968	BenQ Q41
		Haier A20
		Packard Bell EasyNote 15-in.

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